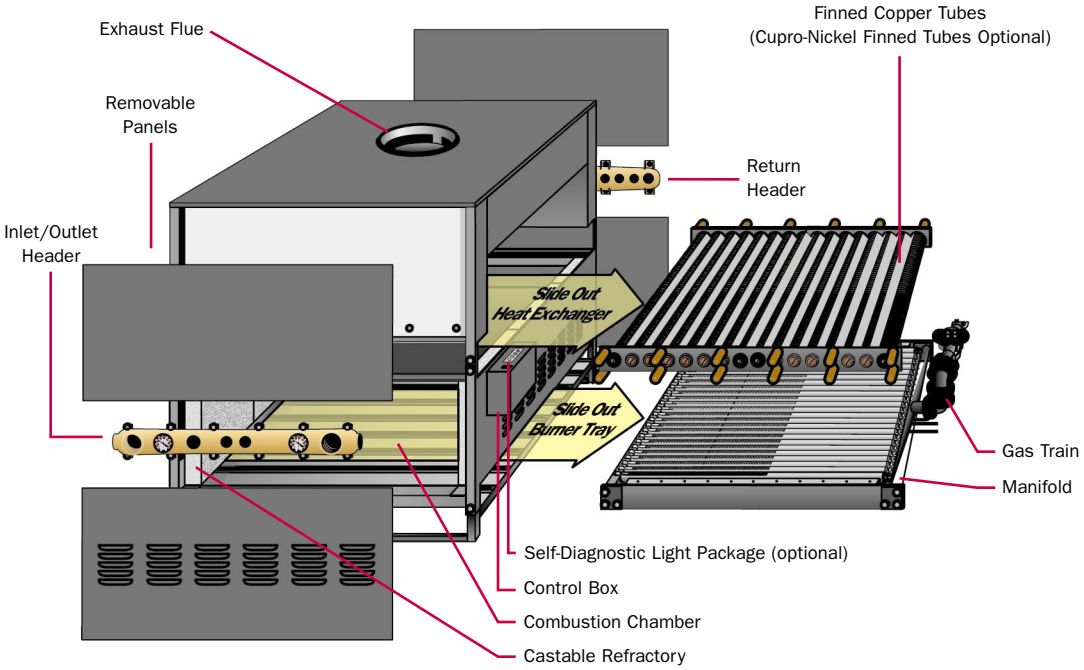
8800
SERIES

RBI
WATER HEATERS

8800 SERIES

Domestic Hot Water Heaters and Hydronic Heating Boilers



Standard Equipment

- Bronze Headers.
- 2-Pass Heat Exchanger.
- Slide Out Heat Exchanger for Easy and Economic Maintenance.
- 60 PSI ASME Pressure Relief Valve.
- 2½" Interlocking Combustion Chamber.
- Built-In Draft Diverter.
- Flow Switch.
- Inlet & Outlet Thermometers.
- 110/24 Volt Transformer.
- Adjustable High Limit Control.
- Electronic Intermittent Pilot Ignition.

The RBI 8800 Series of domestic hot water heaters and boilers have been operating reliably and efficiently since their introduction. In addition to their consistent performance, they have come to be appreciated for their ease of serviceability.

The unique design allows key components to slide out for easy access resulting in minimal interruption to service. All sheet metal components are made of 16 or 18 gauge satin coat steel.

The heat exchanger rests on a solid structural steel frame which reduces thermal shock and increases the durability of the unit. All units are equipped with a 100% copper and bronze waterway to prevent rust and corrosion.

With its quality construction, the 8800 Series has come to be recognized as an industry standard. The 8800 Series is designed to provide years of worry-free service.

Reliability

- 82% Efficient.
- Integral Draft Diverter Single Flue Opening.
- Heavy Duty Structural Steel Frame.
- 16 or 18 Gauge Sheet Metal Components.
- Bronze Headers.
- Finned Copper Tube Heat Exchanger, 160# ASME.
- Various Firing Modes: On/Off, Two-Stage or Motorized Modulation.
- 5-Year Heat Exchanger Warranty, Hot Water Supply Boilers.
- 10-Year Heat Exchanger Warranty, Hydronic Heating Boiler.

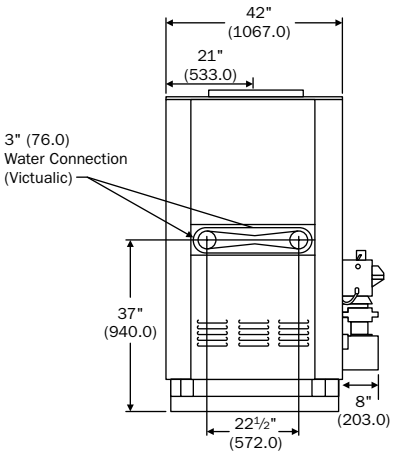
Serviceability

- Slide Out Heat Exchanger.
- Up Front 24 Volt Controls.
- Slide Out Burner Tray.
- Victaulic Connections.
- 2½" Interlocking Castable Refractory for added strength and higher insulation value.
- All major components can be inspected or removed without disturbing boiler casing or breeching.

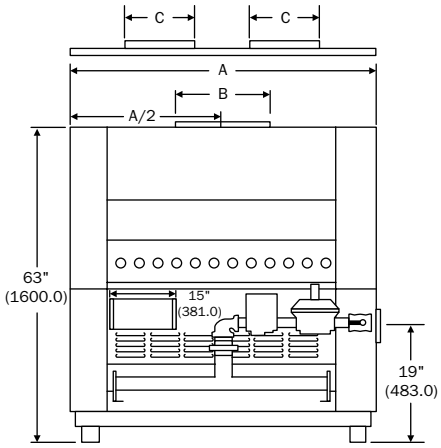
MEA 117-96-E

Dimensions & Specifications

Model	Input MBH	Input kW	Output MBH	Output kW	Net I=B=R Rating MBH	Net I=B=R Rating kW	Dim. A In.	Dim. A mm	Flue Vent Dim. B In.	Flue Vent Dim. B mm	Dual Exhaust Vent Dim. C In.	Dual Exhaust Vent Dim. C mm	Connections Gas Nat.	Connections Water LP	Connections Water In.
2000	2,000	586	1,640	480	1,414	414	55	1,397	22	559	14	356	1.5	1.5	3
2400	2,400	703	1,968	577	1,696	497	64	1,625	24	610	16	406	2	1.5	3
2800	2,800	820	2,296	673	1,979	580	73	1,854	26	660	18	457	2	1.5	3
3200	3,200	938	2,624	769	2,262	663	82	2,083	28	711	20	508	2	2	3
3600	3,600	1,055	2,952	865	2,545	746	91	2,311	30	762	22	559	2.5	2	3
4000	4,000	1,172	3,280	961	2,827	828	100	2,540	30	762	22	559	2.5	2	3



ALTERNATE FLUE COLLECTOR TOP PANEL



Shipping Weight

Model	lbs.	kgs.
2000	1,308	595
2400	1,437	653
2800	1,540	700
3200	1,668	758
3600	1,892	860
4000	2,020	918

NOTES:
- Minimum Clearance from Combustible Material is: 20" top, 45" front, 24" back and 24" side.
- Minimum Frontal Clearance for Burner Service is 45"
- Dimensions in parenthesis are in millimeters.

Recovery Capacity ΔT *(GPH & LPH)*

Model	40° F	22°C	60° F	33° C	80° F	44° C	100° F	56° C	120° F	67° C	140° F	78° C
2000	4,922	18,633	3,281	12,421	2,461	9,316	1,969	7,456	1,641	6,212	1,406	5,323
2400	5,906	22,358	3,938	14,908	2,953	11,179	2,363	8,945	1,969	7,453	1,688	6,390
2800	6,891	26,087	4,594	17,391	3,445	13,042	2,756	10,433	2,297	8,696	1,969	7,454
3200	7,875	29,812	5,250	19,875	3,938	14,908	3,150	11,925	2,625	9,937	2,250	8,518
3600	8,860	33,541	5,906	22,358	4,430	16,770	3,544	13,416	2,953	11,179	2,531	9,581
4000	9,844	37,266	6,563	24,845	4,922	18,633	3,938	14,908	3,281	12,421	2,813	10,649

Heat Exchanger Head Loss & Temperature Rise

Model	20° F GPM	20° F l/s	20° F ΔP Ft	20° F KPa	25° F GPM	25° F l/s	25° F ΔP Ft	25° F KPa	30° F GPM	30° F l/s	30° F ΔP Ft	30° F KPa
2000	164.0	10.3	5.9	17.5	131.2	8.3	3.7	11.2	109.3	6.9	2.6	7.8
2400	196.8	12.4	9.5	28.3	157.4	9.9	6.0	18.1	131.2	8.3	4.2	12.6
2800	229.6*	14.5	14.2	42.4	183.6	11.6	9.1	27.1	153.1	9.7	6.3	18.8
3200	262.4*	16.6	20.0	59.9	209.9*	13.2	12.8	38.3	174.9	11.0	8.9	26.6
3600	—	—	—	—	236.1*	14.9	17.6	52.5	196.8	12.4	12.2	36.5
4000	—	—	—	—	262.4	16.5	21.7	65.0	218.6*	13.8	15.1	45.1

* Exceeds manufactures recommended flow rate, use a greater temperature rise or consult manufacturer.

RBI WATER HEATERS

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